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Tables of Contents

- O- Journals & Magazines
- O- Conference Proceedings
- O- Standards

Search

- O- By Author
- O- Basic
- O- Advanced

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- Print Format

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The use of genetic programming to build queries for it retrieval

- Kraft, D.H.; Petry, F.E.; Buckles, B.P.; Sadasivan, T.

Dept. of Comput. Sci., Louisiana State Univ., Baton Rouge, LA, USA

This paper appears in: Evolutionary Computation, 1994. IEEE World Computational Intelligence., Proceedings of the First IEEE Conference

On page(s): 468 - 473 vol.1

27-29 June 1994

1994

ISBN: 0-7803-1899-4

IEEE Catalog Number: 94TH0650-2 Number of Pages: 2 vol. (xx+xiv+862)

References Cited: 11

INSPEC Accession Number: 4818686

Abstract:

Genetic programming is applied to an information retrieval system in order Boolean query formulation via relevance feedback. This approach brings tog concepts of information retrieval and genetic programming. Documents are vectors in index term space. A Boolean query, viewed as a parse tree, is an the genetic programming sense. Through the mechanisms of genetic prograquery is modified in order to improve precision and recall. Relevance feedback incorporated, in part, via user defined measures over a trial set of documen of a candidate query can be expressed directly as a function of the relevance retrieved set. Preliminary results based on a testbed are given. The form of function has a significant effect upon performance and the proper fitness fur into account relevance based on topicality (and perhaps other factors).

Index Terms:

genetic algorithms; search problems; query processing; information retriev vocabulary; Boolean functions; trees (mathematics); genetic programming; retrieval system; Boolean query formulation; relevance feedback; index ter parse tree; user defined measures; fitness function; topicality

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Tables of Contents

- O- Journals & Magazines
- O- Conference Proceedings
- O- Standards

Search

- O- By Author
- O- Basic
- O- Advanced

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Query expansion for intelligent information retrieval Internet

- Jae-Hyun Lim; Hyon-Woo Seung; Jun Hwang; Young-Chan Kim; Heung-Na Dept. of Comput. Sci. & Eng., Chungang Univ., Dongjak-Ku, South Korea This paper appears in: Parallel and Distributed Systems, 1997. Proceed International Conference on

On page(s): 656 - 662 10-13 Dec. 1997

1997

ISBN: 0-8186-8227-2

IEEE Catalog Number: 97TB100215

Number of Pages: xx+811 References Cited: 12

INSPEC Accession Number: 5787686

Abstract:

Most systems that manage distributed information on Internet have difficult retrieving relevant information for they are not able to include the exact ser retrieval queries that users request. In this paper, we propose an automatic **expansion** method based on term distribution, which naturally reflects ser retrieval terms in order to enhance the performance of information retrieval technique in the LSI is utilized in the proposed method to measure the term which appears similar to a query. Terms appearing most similar to the quer consideration of the distribution are appended to the query. Thereby, the query documents without having common terms but with common concepts. An a reduction technique is also proposed which does not choose to append all the same distribution area. The experimental results show our method maintair retrieval effectiveness as the other LSI methods without having to append runnecessary terms.

Index Terms:

Internet; query processing; information retrieval; **query expansion**; intelli information retrieval; Internet; distributed information; semantics; term dis SVD technique; LSI; automatic term reduction technique

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| 16 | BRS | L16 | 3 | 15 NOT @AD>19941231 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:17 |
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| 18 | BRS | L18 | 52 | 9 AND 17 | | 2001/08/15 18:17 |

| | Туре | L# | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|---|--|---------------------|
| 19 | BRS | L19 | 2 | 18 NOT @AD>19941231 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:17 |
| 20 | BRS | L20 | 296 | 1 SAME (road\$2 OR touris\$5 OR map\$2 OR atlas\$2 OR driving! OR navigat\$5 OR driver\$2 OR route! OR travel\$4) | EPO; | 2001/08/15 18:21 |
| 21 | BRS | L21 | 8 | 20 NOT 17 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:21 |
| 22 | BRS | L22 | 268 | magellan! | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:23 |
| 23 | BRS | L23 | 19 | 9 AND 22 | | 2001/08/15 18:23 |
| 24 | BRS | L24 | 0 | 23 AND (web! OR www! OR internet!) NOT @AD>19941231 | • | 2001/08/15 18:23 |

| | Туре | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|---|--|---------------------|
| 25 | BRS | L25 | 2 | 23 NOT @AD>19941231 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:25 |
| 26 | BRS | L26 | 1 | 1 AND 22 | JPO; DERWEN T; IBM TDB | 2001/08/15 18:24 |
| 27 | BRS | L27 | 97 | 22 NOT @AD>19941231 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:26 |
| 28 | BRS | L28 | 9 | 22 NOT @AD>19941231 AND (map! OR atlas!) | | 2001/08/15 18:32 |
| 29 | BRS | L29 | 1 | ł i | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:33 |
| 30 | BRS | L30 | 1 | "5640553".PN. | USPAT | 2001/08/15 18:34 |
| 31 | BRS | L31 | 61 | | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:39 |

| | Туре | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|--|--|---------------------|
| 32 | BRS | L32 | 0 | 31 AND map! AND (web! OR www! OR internet!) | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 18:41 |
| 33 | BRS | L33 | 1 | 31 AND (web! OR www! OR internet!) | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:41 |
| 34 | BRS | L34 | 20 | 31 AND map! | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:43 |
| 35 | BRS | L35 | 4 | 31 AND map! AND category! | | 2001/08/15 18:44 |

| | Туре | L# | Hits | Search Text | DBs | Time Stamp |
|---|------|----|------|--|--|---------------------|
| 1 | BRS | L1 | 2761 | point! ADJ2 interest! | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:39 |
| 2 | BRS | L2 | 610 | | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 17:55 |
| 3 | BRS | L3 | 78 | 1 AND map! AND (web! OR www! OR internet!) | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | |
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| 5 | BRS | L5 | 887 | (atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231 | JPO; DERWEN T; IBM TDB | 2001/08/15 18:12 |
| 6 | BRS | L6 | | ((search\$4 OR retriev\$4 OR quer\$4) SAME (atlas! OR map!)) AND (web! OR www! OR internet!) NOT @AD>19941231 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:39 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-------------|------|---|--|---------------------|
| 7 | BRS | L 7 | 2 | ((search\$4 OR retriev\$4 OR quer\$4) SAME (category! OR topic\$2 OR interest!) SAME (atlas! OR map!)) AND (web! OR www! OR internet!) NOT @AD>19941231 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:10 |
| 8 | BRS | L8 | 11 | • | | 2001/08/15 18:12 |
| 9 | BRS | T9 | 2481 | 701/20\$,21\$.ccls. | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:12 |
| 10 | BRS | L1 0 | 63 | 9 AND 1 | | 2001/08/15 18:12 |
| 11 | BRS | L11 | 0 | 10 AND (atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231 | | 2001/08/15 18:13 |
| 12 | BRS | L12 | 0 | 10 AND (web! OR www! OR internet!) NOT @AD>19941231 | | 2001/08/15 18:23 |

| | Туре | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|------|---|--|---------------------|
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| 2 | BRS | L2 | 1 | 1 AND internet! | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 16:55 |
| 3 | BRS | L3 | 93 | 701/20\$.ccls. AND internet! | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 16:51 |
| 4 | BRS | L4 | 11 | 701/20\$.ccls. AND internet! AND category! | | 2001/08/15 16:51 |
| 5 | BRS | L5 | 492 | i | | 2001/08/15 16:55 |

| | Туре | L # | Hits | Search Text | DBs | Time Stamp |
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| 1 | BRS | L1 | 2761 | point! ADJ2 interest! | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 17:55 |
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| 3 | BRS | L3 | 78 | 1 AND map! AND (web! OR www! OR internet!) | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | |
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| 8 | BRS | L8 | 11 | 6 AND (701/\$.ccls. OR 707/\$.ccls. OR 709/\$.ccls. OR 705/\$.ccls.) | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:12 |
| 9 | BRS | L9 | 2481 | 701/20\$,21\$.ccls. | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:12 |
| 10 | BRS | L10 | 63 | | | 2001/08/15 18:12 |
| 11 | BRS | L11 | 0 | 10 AND (atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231 | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | 2001/08/15 18:13 |
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|----|------|-----|------|--|--|---------------------|
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| 15 | BRS | L15 | 83 | 9 AND map! AND (web! OR www! OR internet!) | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB | |
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